

"The Northwest's Largest Ham Convention"



SEA-PAC '12

June 1st, 2nd and 3rd, 2012

NORTHWESTERN DIVISION ARRL CONVENTION
Seaside Convention Center, Seaside Oregon

Commercial Exhibits • Giant Flea Market • Seminars
Banquet/Entertainment • VE Testing • DX & YL Luncheons

On the Beautiful Northwest Ocean Beach

Exhibitors Call:
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SEA-PAC Convention
PO Box 25466
Portland, OR 97298-0466

Registration Info:
Will Sheffield, N7THL
503.642.7314
n7thl@juno.com

◀ www.seapac.org ▶

I want to be part of SEA-PAC '12 Please send me:

☐ Registration Form ☐ By E-mail ☐ By US Mail

☐ Flea Market Information

☐ Commercial Exhibit Rates and Contract

☐ I would like to See or Present (circle one) a Seminar on...

Topic _____

Name _____ Call _____

Address _____

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Fill out this form — Leave at the Registration Desk
to receive information on SEA-PAC '12.



SEA-PAC



29th Year

Northwestern Division
ARRL Convention



Seaside Convention Center
Seaside, Oregon

June 3th, 4th and 5th, 2011

www.seapac.org

Presented by
Oregon Tualatin Valley
Amateur Radio Club



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V.E. TEST SESSION

*Testing at Our Savior's Lutheran Church—East Parish Hall
(North—across the street from the Convention Center)*

One Session—Saturday at 9 AM

Pre-registration requested. Walk-ins — Space Available

COMMITTEES

EXECUTIVE COMMITTEE

Chairman

Al Berg W7SIC

Vice Chairmen

Will Sheffield, N7THL

Wayne Schuler, AI9Q

Darwin Durr, K7PSD

BANQUET MC

Everett Curry, W6ABM

EXHIBITORS

Al Berg, W7SIC

EXHIBITORS

HOSPITALITY

Betty Mickley, N7REX

Frances Adams, KB8PRL

Scott Adams, KB8PRS

Charles Mickley, Jr.

Molly Mickley

Joe Boyd, N7VZS

Ann Boyd

Dinah Wells

Brad Wells, KD7RTD

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Cindy Kenyon, KC7UJD

Ivan Loock, N7PRM

Kathy McClanahan, N7YBN

Richard McClanahan,

KC7GBU

Geoff Apgar, W7JEZ

Ken Woolston, KE7OSO

Jim Sellers, N7RDN

Bill Morris, W7IH

Steve Brice, NA7T

Steve Coan, KA7MOW

Mike Williams, N7RDV

FLEA MARKET

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Tom Hill, WA3RMX

Jack Smithson, KA7HOJ

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Luther Brisky, KC7KVL

Gary Takis, K7GJT

Wayne Schuler, AI9Q

MEAL ARRANGEMENTS

Al Berg, W7SIC

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Mel Sutton, KB7PVW

Mike Durr, KA7PWZ

Bob Recny, N8SQT

Everett Curry, W6ABM

Jim Schaeffer, KB7ADH

Warren Winner, W7JDT

Melissa Nelson

REGISTRATION

Will Sheffield, N7THL

Mary Berg, N7TRW

Jerry Sheffield, KC7EKT

Kathy George, KC7USE

SEMINARS

Hoodview A.R.C.

Ed Chulow, N7TL

Ken Chulow, KA7VQH

Denny Doolittle, WB7UFJ

Pat Michaud, W7RED

Richard Berney, KE7AOA

SECURITY

Clark County A.R.C.

Bruce Bullis, KG6CI

Eric Keerbs, AD7HM

TALK-IN STATION

Sunset Empire A.R.C.

Stan Schwenk, W7ZBR

Nate Lee, KD7IBA

Nancy Lee, KF7IUL

Bob Carson, WA7WIW

Greg Filliger, N7RIA

TREASURER

Linda Sutton, KC7YTD

V.E. TESTING

Carl Clawson, WS7L

Raul Gonzalez, N7BAR

Cyd Athens, AC1CA

Claire Johnson, N7CM

Hal Rosene, KK7E

Ernie Johnson, K7EAJ

Rich Morgan, KD7GIE

Jim Mockley, W7JMM

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Bob Heath, KD7OHF

OTV ARC LIAISON

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They made SEA-PAC 2011 possible.

Committee Chairs are listed above in italics

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SEA-PAC '11 PIN

Congratulations to **Hugh Poling KC7HP**, winner of the 2011 SEA-PAC Pin Contest. Be sure to pick up your 2011 Pin (\$5.00) at the registration desk. Pins from some previous SEA-PAC conventions are also available for purchase.



SEA-PAC WELCOMES OUR ARRL GUESTS

Jim Fenstermaker, K9JF, ARRL Northwest Division Director

has served as the ARRL North-western Division Director for six years. He served previously as the NWD Vice-Director for six years. During this time, he has been appointed to the ARRL Administration and Finance Committee for six years; the past three years as committee chair. Other assignments on the ARRL Board of Directors include service on the Programs and Services Committee, Legislative Action Committee and Executive Committee. Jim is also a member of the Boy Scout Committee and is a Board member of the ARRL Foundation. Prior to his ARRL service, Jim was president of the Clark County Amateur Radio Club and Willamette Valley DX Club. He also founded the Greater Milwaukee (WI) DX Club. Jim and Shirley, W7SAF, have been residents of the Pacific Northwest for nearly 30 years after moving here from the Midwest. They are residents of Vancouver, WA but have lived and worked in Seattle for the past ten years with occasional forays down I-5 to Vancouver. Jim is an active DX'er holding #1 DXCC Honor Roll with all of the DXCC Entities worked and confirmed (365 DXCC entities confirmed including deletions) as well as a 9-band DXCC award (160-10 meters). Additionally, he participates in DX Contests as a "hired gun" from large contest stations around the Northwest and other locations. His latest endeavor is to work and confirm all US Counties (all 3,077) and hopes to complete this goal by the time SEA-PAC occurs. They are easing into retirement these days and, being a CPA, Jim does some part-time consulting.



Grant Hopper, KB7WSD, ARRL Northwestern Division Vice Director

is a past president and current director of the Snohomish County Hams Club in Snohomish County, Washington, as well as the club's Education Program Coordinator and a license class instructor. He has served as an ARRL Volunteer Council for Washington State since 2004 and written several articles on amateur radio issues and the law. Grant serves as the City of Everett, Office of Emergency Management's "Radio Officer", the head of the City's ACS program and works closely with the community CERT program. In addition to his private law practice, Grant is a professor at Edmonds Community College, teaching legal courses. Prior to becoming an attorney, he spent over ten years in law enforcement (police officer and deputy) and was a volunteer fire fighter. When he has a chance to take break from work and other responsibilities, he is an avid fox-hunter and enjoys designing and building amateur and other electronic gear. You might hear him on the air on mini DXpeditions when he activates northwest islands for the US Islands and IOTA program with fellow club members. Grant is married to Vickie Hopper, KD7LAW, and lives and works in Everett, Washington.



SCHEDULE OF EVENTS

Friday, June 3

Registration	11:00 AM – 8:00 PM
Exhibitor & Flea Market (<i>Setup Only</i>)	11:00 AM – 8:00 PM
Friday Workshop Lunch (<i>Shilo Inn</i>)	11:00 AM
Friday Workshop (<i>Shilo Inn—Registration Required</i>)	1:00 PM – 5:00 PM
Spaghetti Dinner (<i>Seaside Fire Hall</i>)	4:00 PM – 8:30 PM

Saturday, June 4

Exhibitor/Flea Market Set-Up	7:30 AM – 9:00 AM
Registration	8:00 AM – 4:30 PM
VE Exams (<i>Our Saviour's Church East Parish Hall</i>)	9:00 AM – Noon
Exhibits & Flea Market Open	9:00 AM – 4:30 PM
Snack Bar (<i>Convention Center</i>)	9:00 AM – 4:30 PM
Seminars (<i>Convention Center</i>)	10:00 AM – 5:00 PM
Hourly Prizes	10:00 AM – 3:00 PM
DX Luncheon (<i>Shilo Inn</i>)	11:30 AM – 1:30 PM
YLRL Luncheon (<i>Shilo Inn</i>)	11:30 AM – 1:30 PM
ARRL Forum (<i>Seaside A&B</i>)	1:30 PM – 2:15 PM
Special SEA-PAC Prizes	2:30 PM
Pre-Banquet Happy Hour (<i>Convention Center</i>)	6:30 PM – 7:15 PM
SEA-PAC Banquet (<i>Convention Center</i>)	7:15 PM – 9:30 PM

Sunday, June 5

Registration	8:30 AM – 12:00 PM
Exhibits & Flea Market Open	9:00 AM – 1:00 PM
Hourly Prizes	9:00 AM – 1:00 PM
Snack Bar	9:30 AM – 12:30 PM
Special SEA-PAC Prizes	10:30 AM
SEA-PAC Prizes	1:00 PM – 2:00 PM
Convention Closes	2:00 PM



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WELCOME

SEA-PAC, the Northwestern Division ARRL Convention, is sponsored by the Oregon Tualatin Valley Amateur Radio Club.

Co-Sponsors include Clark County Amateur Radio Club, Hoodview Amateur Radio Club, and Sunset Empire Amateur Radio Club.

Thanks to convention volunteers for their assistance. We invite everyone to enjoy themselves to the fullest and be a part of making this event a success.

SEA-PAC 2011 Executive Chairmen

Will Sheffield, N7THL; Wayne Schuler, AI9Q; Darwin Durr, K7PSD; Al Berg, W7SIC



4th Annual Sunset Empire Amateur Radio Club (SEARC) Spaghetti Feed

All You Can Eat Spaghetti Dinner is held at the Seaside Fire Hall

Friday night June 3, from 4 PM to 8:30 PM

Adults \$8 Children 7-12 \$6

\$1 off admission with proof of Ham license or SEA-PAC Registration.

For more information visit www.w7bu.org/spaghetti

EXHIBITORS

A Better Tomorrow Sales	Kenwood Communications
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ARRL	LED Wholesalers.com
Amateur Radio Relay Group	LIDO Mounts
Arcom Communications	NCG/Comet Co.
Battery Tech Inc.	Nifty Ham Accessories
Buddipole Antennas	Oregon Region Relay Council
Celebrating Home	Pacific Amateur Radio Guild
Cookie Lee Jewelry	QRZ.com
CQ Magazine	QR-ZED Engraving
D-RATS	Rescue Tape NW
DC Power LLC	Sciesis Scientific
Depiction Inc.	STARS (Seaside Tsunami ARS)
Disaster Guy	Surplus Gizmos
DX Store	Test Equipment Plus
Elecraft	Tigertronics
Flex Radio Systems	Unique Embroidery and Graphics
Fue Enterprises	US Navy-Marine Corps MARS
GRE America (Alinco)	Vertex Standard-Yaesu
Hotpress Ham Hats	Western Case Company
HRO (Ham Radio Outlet)	Wired Communications
ICOM America	YLRL
Idiom Press	
J Poles	

Due to publication deadlines we apologize for any changes or omissions.

2011 SEA-PAC "Sea Mist" Meeting Room Schedule

Saturday

9:00 am – 10:30 am	Oregon Section Cabinet	Bonnie Altus	AB7ZQ
10:30 am – 12:00 noon	NTS meeting	Scott Gray	W7IZ
1:00 pm – 2:30 pm	O-O Training (closed session)	Everett Curry	W6ABM
2:45 pm – 4:15 pm	Oregon ARES	Kevin Hedgepeth	NB7O

Sunday

9:00 am – 10:30 am	[open]		
10:45 am – 12:15 pm	ARRL NW Division Cabinet	Jim Fenstermaker	K9JF

RAGS Country Store

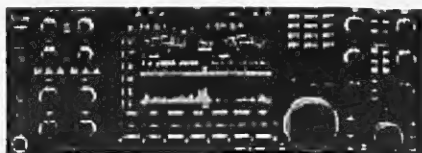
As a service to flea market buyers the RAGS (Radio Amateurs of the Gorge) club provides a testing center for equipment. Power supply, voltmeter, service monitor, oscilloscope and freq counter are a part of our testing ability. Check out what you are considering buying. Have a piece of gear to sell? We consign for you and at a reasonable charge. Neither RAGS nor SEA-PAC can accept responsibility for the condition of any equipment nor can be held responsible for any damage as a result of use of test gear. As an additional service to the Amateur Radio Community, RAGS also provides a Country Store where rigs and other equipment will be displayed for sale. *Remember, your boat anchor is someone else's dream machine!*

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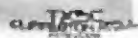


We don't just sell equipment we use it the same way you do, chasing DX. Bigger is not always better, well maybe for antennas and amplifiers. Give us a call today toll free 866-899-DXIS



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BANQUET

Everett Curry W6ABM, Master of Ceremonies

Keynote Speaker—Mr. E. E. "Van" Valkenberg, CMSgt., USAF (Ret.)

After 22 years of absence, SEA-PAC is pleased to welcome back Mr. E. E. "Van" Valkenberg as our guest speaker at this year's Saturday night banquet. He is best known as a retired Chief Communicator of Air Force One, CMSgt., USAF (Ret.)



Van's military career includes enlistments in both the U.S. Navy and Air Force, starting at the end of WWII. He served in Korea, Santo Domingo and Viet Nam where he served as Chief Radio Operator. For his last duty assignment, he transferred to Andrews Air Force Base, in Washington, DC, where he flew in the VIP fleet, flying with the Secretary of State, Cabinet members, Congressmen and other dignitaries. He has flown with Presidents, Vice-Presidents and other Heads of States and met many movie stars including John Wayne, Bob Hope, Joan Crawford and others.

He has served under all presidents from Lyndon Johnson through George Bush. During his military career, he has flown to Russia 53 times and China 27 times logging over 21,000 hours of flying time. Van has been an avid skydiver with a total of 2041 free falls; 9 of which were from 40,000 feet with the Special Warfare & Golden Knights. Before his retirement, he was asked to edit the predesign manual for the new 747 Air Force One aircrafts.

Van has been in two movies narrated by James Stewart and Charlton Heston. He has also been featured in two books and has been a guest speaker for hundreds of clubs including SEA-PAC in 1989.

Since his retirement after more than 37 years in the military service, Van has called Vancouver, Washington, his home and thusly known to friends as "Chief Van". He now spends his time reading, relaxing, recording music and having breakfast with his many friends.

Van will discuss how he came to be the Chief Communicator; his duties and experiences on Air Force One and other 'behind the scenes' activities.

Please join us at this year's SEA-PAC banquet and relive the "Life and Times of E.E. Van Valkenberg".

DON'T MISS THIS EVENT.

Get your SEA-PAC banquet tickets today as seating is limited.

BANQUET PRIZES

HRO Gift Certificate for \$200 and 2—Gift Baskets

PRIZE DONORS

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Fue Enterprises
Hotpress Ham Hats
HRO (Ham Radio Outlet)
ICOM America
J Poles
Kenwood Communications
Larry's Antennas LLC
LED Wholesalers.com
LIDO Mounts
NCG/Comet Co.
Nifty Ham Accessories
QR-ZED Engraving
Rescue Tape NW
SteppIR Antennas
Surplus Gizmos
Tigertronics
Western Case Company
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Camp 18 Restaurant & Gift Shop
Circle Creek RV Park
Dooger's Seafood & Grill
Holiday Inn Hotel Suites Express Inn
Motel 6
Norma's Ocean Diner
Pig 'N Pancake
Portland Fudge
Sam's Seaside Café
Seaside Chamber of Commerce
Seaside Helicopters
Shilo Inns Suites Hotel
Sundowner Motor Inn
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Heritage Hotels Inc., *Portland OR*
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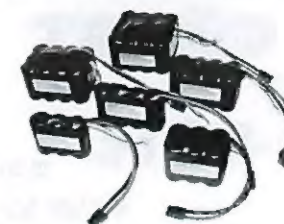
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SEMINARS

SATURDAY SEMINARS 10:00 AM - 5:00 PM

1:00 PM
SEASIDE A&B

ARRL FORUM

Jim Fenstermaker K9JF, ARRL Northwestern Division Director
Grant Hopper KB7WSD, ARRL Northwestern Division Vice-Dir.
Carl Luetzelschwab K9LA, ARRL Guest

An opportunity to meet Jim and Grant and find out what the ARRL has planned for the future as well as an opportunity to express your thoughts and opinions on policy and direction. Carl is a well known columnist and writer on the subject of radio propagation. If you were not fortunate to take in the Friday luncheon and workshop this is your chance to meet him.

1:00 PM
RIVERVIEW B

Software Defined Radio (SDR)

Jeremy McDermond NH6Z

A software-defined radio system is a radio communication system where components are implemented by means of software on a personal computer or embedded computing devices. Jeremy's presentation will show you how this is done and how you can get started in this new field.

1:00 PM
RIVERVIEW C

Frequency Coordination for Repeaters

Daron Wilson N7HQR

The Oregon Region Relay Council, Inc. and the Western Washington Amateur Radio Association present a joint session which we have worked together to develop. We plan to do a 15-20 minute power point presentation by each group, followed by a panel type question and answer session with board members from each group.

3:00 PM
SEASIDE A&B

Suitcase DXpedition II

Budd Drummond W3FF

Chris Drummond W6HFP

Another trip with Budd and Chris, fresh video from the Feb/2011 outing to Dominica in the Caribbean and the latest innovations in portable antennas and tools for DXing out of a suitcase anywhere in the world..

3:00 PM
RIVERVIEW A

A History of Radio & TV

Jack Barnes WA7KMR

Jack, a 36 year veteran in Television and Radio broadcasting and was the Chief Engineer for KOMO TV and KOMO Radio for many years. His presentation is an overview of the evolution of electronics and communications systems in broadcasting and Television News from the vacuum tube days to HDTV including studio systems, editing, satellite and microwave communications, helicopter and aircraft.

3:00 PM
RIVERVIEW B

The DX'ing Game: Ideas Blatantly Plagiarized from W9KNI On How to Work DX

The techniques and strategies that can help you work those hard ones, break through the pile-ups and raise your country count.

3:00 PM
RIVERVIEW C

Ham Law

Phil Kane K2ASP ARRL Volunteer Counsel

Phil, a lawyer and an engineer, is a F.C.C. veteran working many years in the San Francisco Office. He is ready to discuss the many legal aspects of our hobby such as part 97, CCR, and interference issues. Join him for a lively discussion of your rights and responsibilities.

PRIZES

ALL PRIZES SUBJECT TO CHANGE

Sunday, 1:00 - 2:00 pm

Need Not Be Present to win

Yaesu FT-857D HF/VHF/UHF

Kenwood TM-V71A Dual Band Mobile

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Yaesu VX-3R Dual Band HT

Yaesu FT-8800R Dual Band Mobile

ICOM IC-208H Dual Band Mobile

Alinco DJ-C7J Dual Band HT

Early Bird Prize

Registration postmarked by April 15, 2011

Kenwood TH-F6A Tri Band HT

Yaesu VX-6R Tri Band HT

HOURLY PRIZES

Unclaimed prizes are reissued!

DX Special Interest Group Luncheon Speaker

DXpeditioning from the South Pacific



Bill Vanderheide, N7OU is a retired elementary school teacher. When he was 11, he received a crystal radio kit for Christmas and that began his lifelong fascination with wireless communication. He was first licensed as WV6FYW in 1959, and served as a radio operator with the US Army in Vietnam. His current ham radio interests are portable operation, DXpeditioning, CW, and contesting. Over the last 5 years he has been on light-

weight DXpeditions to many DXCC entities in the South Pacific, including the North and South Cooks, Rotuma, Tuvalu, Chatham Island, and Tokelau. Earlier this year he operated from Tarawa, Western Kiribati, with Bob Norin, W7YAAQ, his usual DXpeditions partner. Articles describing his DX operations have appeared in QST and The DX Magazine. He is a member of the ARRL and the Willamette Valley DX Club, and a sorter for the 7th Area ARRL DX QSL Bureau.

Young Ladies Radio League Luncheon Speaker

Getting "Radio-Active"

Vicky Luetzelschwab, AE9YL was first licensed as KB5EAM, technician plus, in 1987. She upgraded to General in 1999. She upgraded to extra in 2000 and selected the vanity call sign AE9YL.

Vicky enjoys DXing, contesting and chasing Pacific Northwest Lighthouses. She is a member of the Amateur Radio Lighthouse Society. She loves to read romance, world history, and books on religion. She has her BS in Education and Special Education from the University of Saint Francis in Fort Wayne. She is currently a substitute teacher for the Fort Wayne/South Bend Diocese.

Vicky's husband is Carl K9LA, and they enjoy traveling and operating abroad. They have operated from Syria, Market Reef, and the Vatican. Vicky is a WAS, WAC, and VUCC card checker with the ARRL. She currently stands at 303 entities.



SEMINARS

SATURDAY SEMINARS 10:00 AM - 5:00 PM

10:00 AM

RIVERVIEW A

A DXpedition to Ascension Island

Tom Meier K7ZZ

Tom took a two week trip down to ZD8 and would like to share it with us. He says its part travelogue, part logistic when HRO is a long ways away and part operating techniques from the other side of the of the pile-up. Sounds like a good one.

10:00 AM

RIVERVIEW B

Club Fun

Grant Hopper KB7WSB

"Creative Ways to Reinvigorate Club Activities and Have More Fun"
A program on re-energizing clubs and bringing members 'back in' by focusing on fun activities, by identifying unmet member needs and desires, and by creating an atmosphere of inclusion that makes new licensees and no-code Techs want to get involved (and frequently upgrade.)

11:30 AM

SEASIDE A&B

The QRZ User Forum

Fred Lloyd AA7BQ

Fred Lloyd, AA7BQ, founder of QRZ, will give a short presentation on the history of QRZ, how it got started and what has been learned. Fred will follow up with a report on the latest QRZ developments and will host an open Q&A session with the attendees

11:30 AM

RIVERVIEW A

STARNET

John Hays K7VE

STARnet Digital is a new application for use with D-STAR (Digital Smart Technology for Amateur Radio) that builds upon Smart Technology for Amateur Radio by building dynamic networks of D-STAR radio stations through the worldwide network of D-STAR gateways and repeaters.

11:30 AM

RIVERVIEW B

A Local DXpedition

Delvin Bunton N7QMT

This presentation will discuss planning and preparation steps for local DX-peditions (meaning a short distance from home). What you need as a minimum for success, ideas where to operate, and what to leave home. The idea is radio fun without big expenses.

11:30 AM

RIVERVIEW C

EMERGENCY PREPAREDNESS

Jen O'Neal Clatsop County Red Cross

A presentation on many types of emergency preparedness, it will cover everything from you at your residence to evacuation situations. It will also include discussions on Tsunami preparation.

1:00 PM

RIVERVIEW A

IOTA DXpedition to Alaskan & Marshall Island

Yuri Sushkin N3QQ

Yuri from Bellingham, WA will discuss IOTA expeditions of Russian Robinson Club in 2010 to uninhabited islands: KL7RRC Chirikof Island NA-235 in Alaska and V73RRC Ujelang Atoll OC-278 in the Marshall Islands.

SEMINARS

Please silence audio signals during the sessions.

Let these SEA-PAC workshop and seminars catch your interest and open the door to new ham radio adventures. The presenters below volunteer their time and experience to share with you their knowledge and skills on the many facets of this great hobby. What ever your interests are, you're sure to acquire new knowledge to take home, enjoy and share with others. Below is an overview of the workshop and seminars SEA-PAC is presenting this year.

FRIDAY WORKSHOP 1:00 PM - 4:30 PM

Radio Wave Propagation

An Afternoon with Carl Luetzelschwab K9LA

Carl Luetzelschwab K9LA is the author of many articles on radio wave propagation, contributor to the propagation section of the *ARRL Antenna Compendiums* and monthly Propagation columnist for the WorldRadio Online.

Join Carl as he discloses the science and practices of radio propagation. Explore the Ionosphere. Learn how it forms, how it is measured, and the impact it has on MF, HF, and VHF radio propagation. Delve into the science of propagation prediction, the software available, how it is used and its limitations and other specific topics as 160 meters, skew path, noise etc. Finally, he will discuss Cycle 24 and its progress. Whether you are newly minted ham, an avid DX chaser, a battle tested contester or a short wave enthusiast you should find a great deal of valuable information so don't miss this opportunity to improve your skill and knowledge.

Location: Shilo Inn, Cost: \$15 WORKSHOP REGISTRATION REQUIRED

SATURDAY SEMINARS 10:00 AM - 5:00 PM

10:00 AM
SEASIDE A&B

Oregon ARES/RACES PROGRESS & PLANS
Vincent Van Der Hyde K7VV

Our annual presentation of events, plans, training etc of Oregon ARES/RACES.

10:00 AM
SEASIDE C

Improved Technical Schematics
Al Williams K7PUC

The original inventors used the word schematic to name a type of drawing which shows how the circuit operates electrically rather than how they are wired. Al, a retired Electronic Engineer, first became involved in learning how to draw schematics for readability over 50 years ago. A good one for beginners and students studying electrical theory.



QRZ.COM

This year, SEA-PAC is pleased to have the founder of QRZ.com, Fred Lloyd, AA7BQ.

QRZ was founded in 1992 as a spinoff of what was once called the "Callsign Project", a cooperative effort designed to obtain and distribute FCC database tapes.

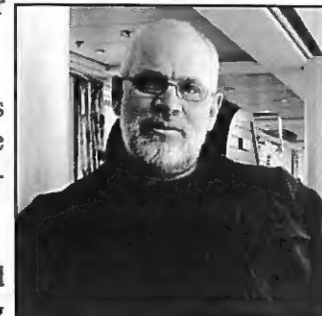
The "project" part of the callsign project consisted of obtaining the FCC data tapes and then making copies of it for distribution to other interested parties. Shortly thereafter Fred decided on using the ham radio shorthand term QRZ as a name for the new product. It was short, catchy, and 100 percent ham radio!

Fred, a software engineer by profession, started to work on the second edition and a new Windows callsign program and when the World Wide Web was born, QRZ went online with web based callsign lookup server. QRZ holds the distinction of being one of the first 5,000 websites in existence (there are many millions today).

Today, 25 editions and over 250,000 copies of the QRZ Ham Radio CDROM have been sold worldwide and it has earned the title of the #1 bestselling amateur radio software product of all time. The QRZ CDROM has been used on all 7 continents (yes, including Antarctica) and has been carried on the Space Shuttle, the MIR space station, and is in use today aboard the International Space Station.

QRZ remains a small business that is run by Fred and he operates it from a spare room in his home. Fred is extremely grateful for the support of the many friends that he has made on the internet and looks forward to making many more in the future.

And what do the letters QRZ stand for? To be sure, please attend one of SEA-PAC's many seminars and ask Fred Lloyd yourself.



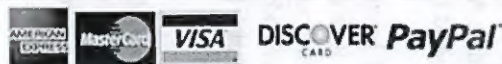


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cables **\$2.00 Each**



Many XLR Adapters
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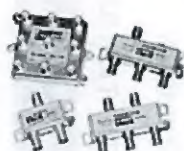
Ham Radio Adapters
From **\$0.50 - \$3.00**



12V 10 LED White Disc
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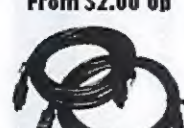
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